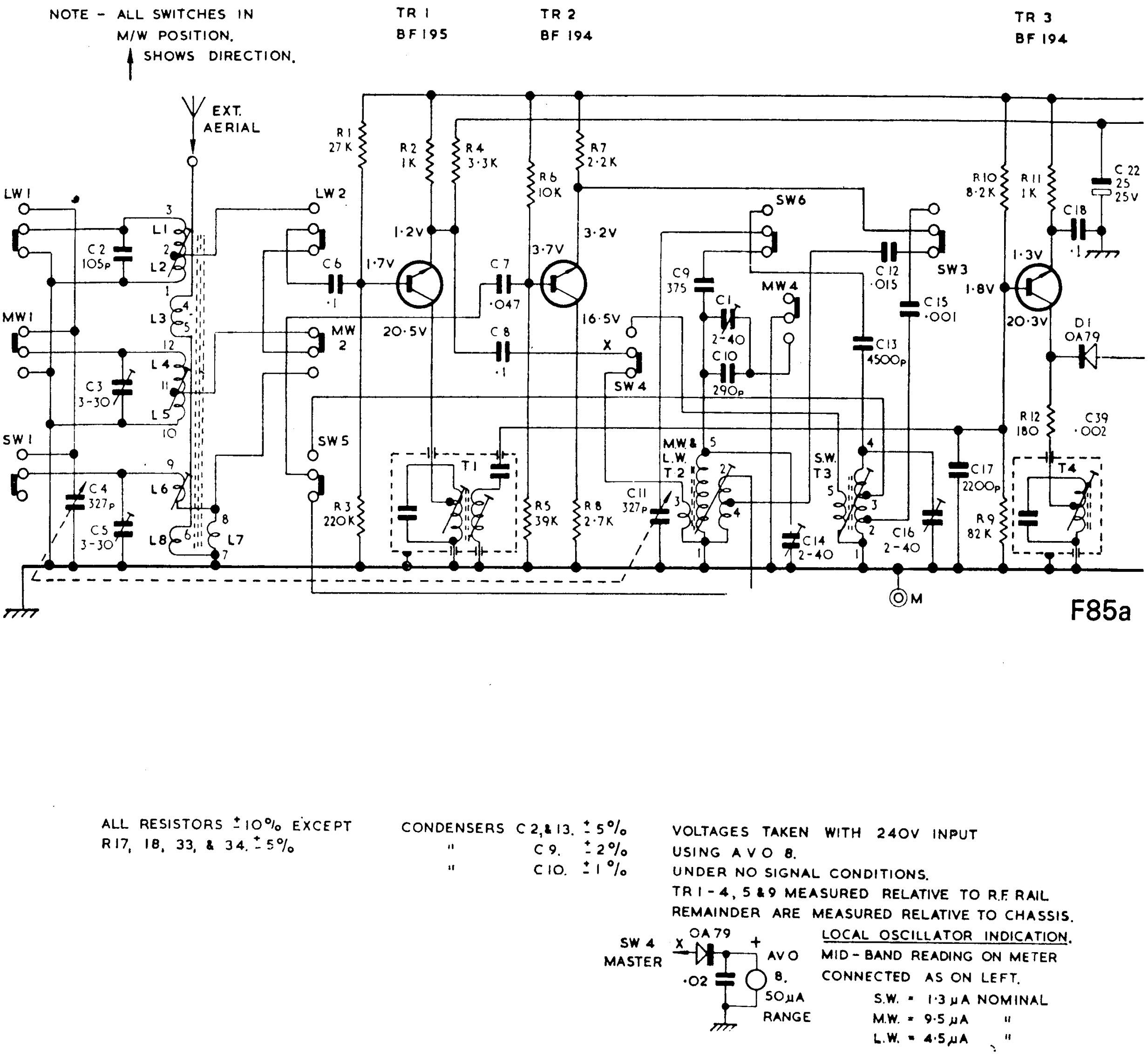
ALBA

Model 46

General Description: Twelve-transistor, three-waveband radio receiver with an audio stereophonic amplifier. I.F. 470kHz.

Wavebands: L.W.: 1035–1900 metres. M.W.: 183–577 metres. S.W.: 5·8–19MHz.

Chassis Removal: Pull off knobs, remove three 4BA nuts (one at each end of chassis and one at top fixing strip), note washer between strip and wood block, lift out chassis.



ALL RESISTORS ±10% EXCEPT R17, 18, 33, & 34. ±5%

CONDENSERS C2,& 13. ±5%
" C9. ±2%
" C10. ±1%

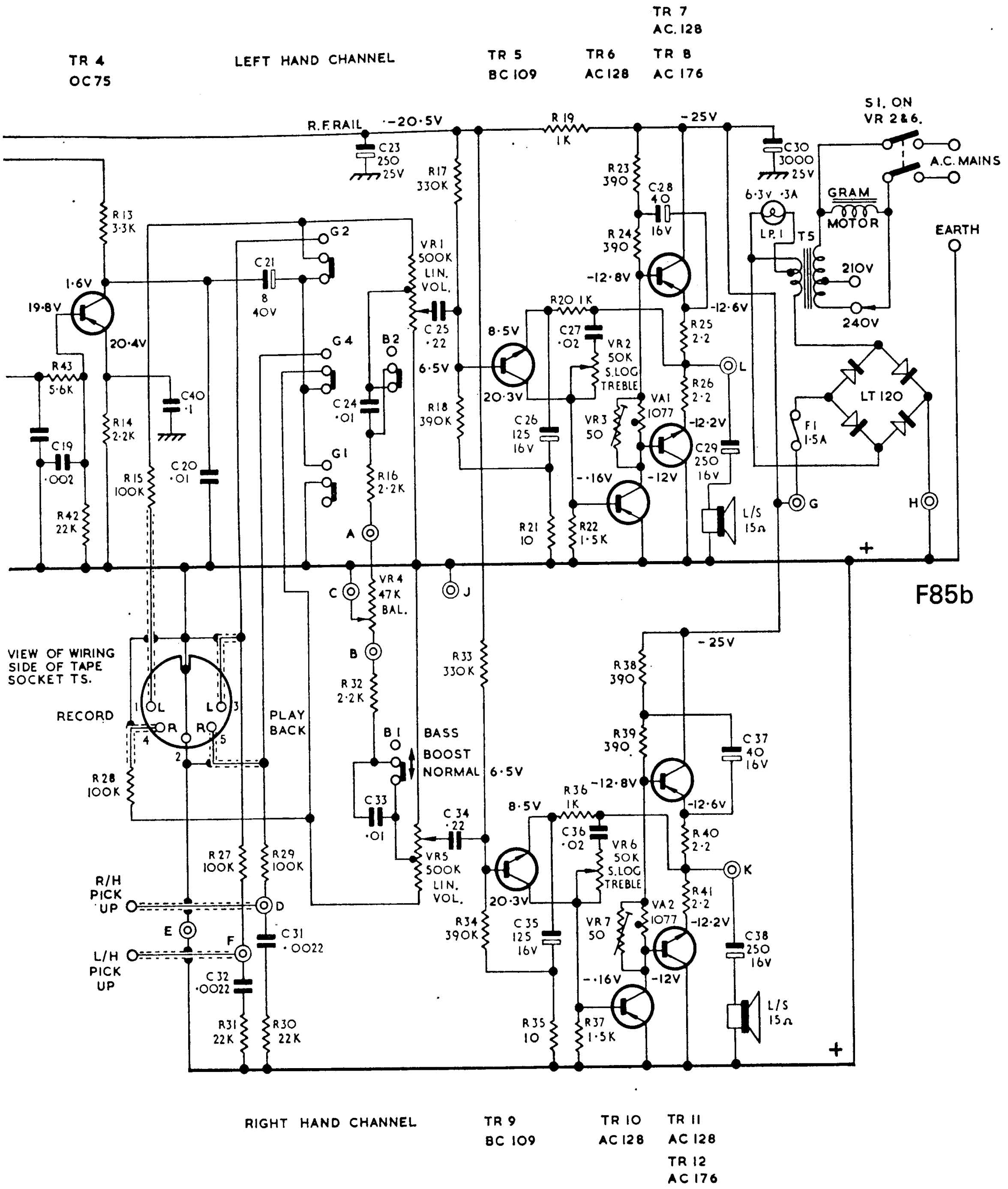
VOLTAGES TAKEN WITH 240V INPUT USING AVO 8.
UNDER NO SIGNAL CONDITIONS.
TR 1 - 4, 5 & 9 MEASURED RELATIVE TO R.F. RAIL
REMAINDER ARE MEASURED RELATIVE TO CHASSIS.

LOCAL OSCILLATOR INDICATION.
MID-BAND READING ON METER CONNECTED AS ON LEFT.
S.W. = 1·3 μA NOMINAL
M.W. = 9·5 μA "
L.W. = 4·5 μA "

(F85a) CIRCUIT DIAGRAM—MODEL 46 (PART)

Sensitivity: For 50mW output, with volume and treble at maximum, and Bass button out. 470 kHz via 0·1 μF to: TR1 base (7 μV), TR3 base (350 μV) and DI (70mV). 1 MHz via 0·1 μF to: TR1 base (8 μV). 6MHz via 0.1 μF to: TR1 base (9 μV). 1kHz via 0·1 μF to: TR5 base (15·5mV) and TR9 base (15·5mV).

Alignment (I.F.): Set volume to maximum. Inject 470kHz via 0·1 μF to TR1 base, and trim T4 and T1 for maximum output. Use 30 per cent mod. and keep signal input level low to prevent A.G.C. action.

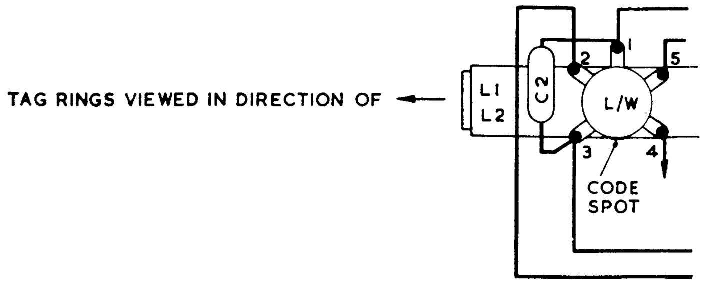


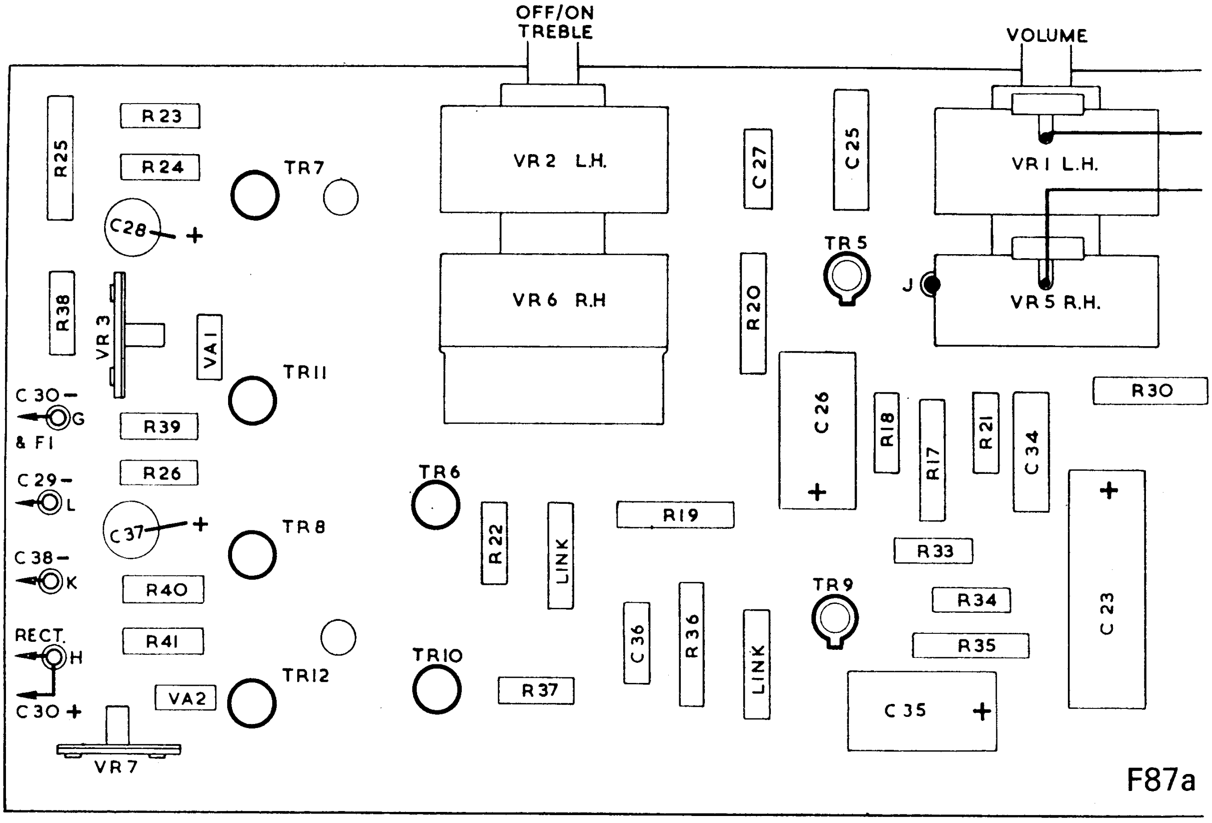
(F85b) CIRCUIT DIAGRAM—MODEL 46 (CONTINUED)

Alignment (M.W.): Inject signal into aerial socket. Tune to 600kHz. Inject 600kHz and adjust T2 and L4 for maximum output. Tune to 1500kHz. Inject 1500kHz and adjust C14 and C3 for maximum output.

Alignment (L.W.): Inject signal into aerial socket. Tune to 200kHz. Inject 200kHz and adjust C1 and L1 for maximum output.

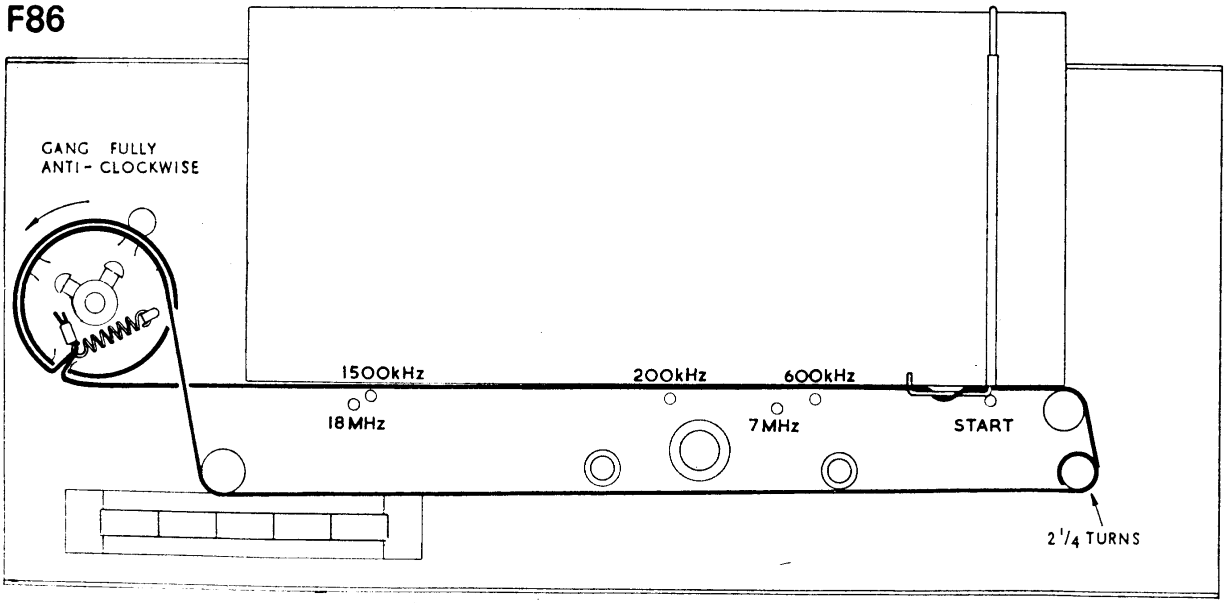
Alignment (S.W.): Inject signal into aerial socket. Tune to 7MHz. Inject 7MHz and adjust T3 and L6 for maximum output. Adjust L6 by opening or



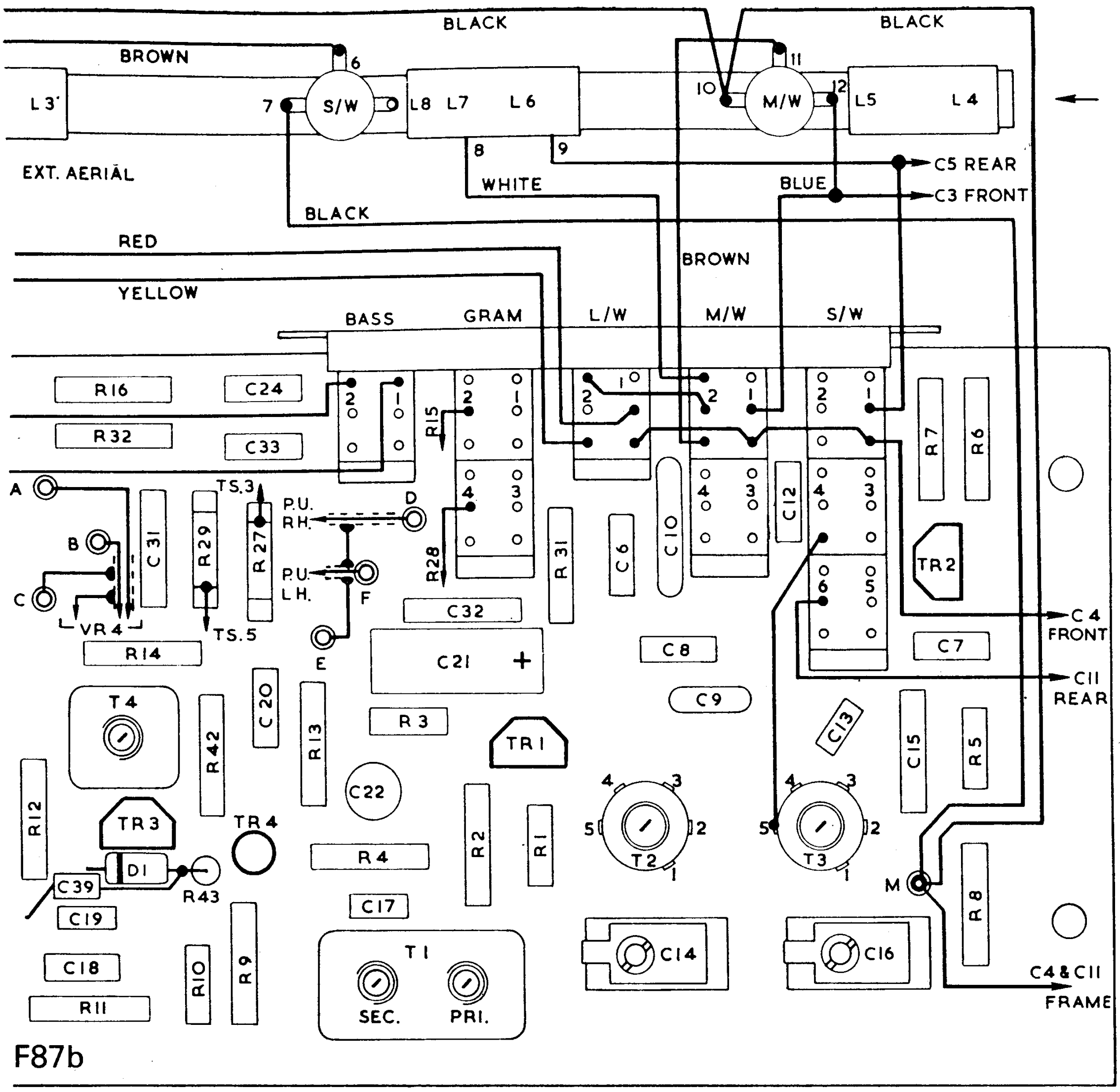


(F87a) Component Locations—Model 46 (Part)

F86



(F86) Drive Cord—Model 46



(F87b) Component Locations—Model 46 (Continued)

closing winding. Tune to 18MHz. Inject 18MHz and adjust C16 and C5 for maximum output.

Audio Adjustment: Adjust VR3/VR7 for minimum crossover distortion. The collector current of TR8 and TR12 should not exceed 10mA.